

Amendment to the Claims:

In compliance with the Revised Amendment Format, a complete listing of claims is provided herein.

---

B2 1. (Original) A method of managing the locking of resources of a data repository, said method comprising:

determining a relationship between a plurality of resources of said data repository, wherein said relationship is at least one of a containment-based relationship and a reference-based relationship; and

locking at least one resource of said plurality of resources based on said relationship.

2. (Original) The method of claim 1, wherein said locking of said at least one resource is performed without locking at least one other resource of said plurality of resources.

3. (Original) The method of claim 1, wherein said locking of said at least one resource is further based on an operation to be performed.

4. (Original) A system of managing the locking of resources of a data repository, said system comprising:

means for determining a relationship between a plurality of resources of said data repository, wherein said relationship is at least one of a containment-based relationship and a reference-based relationship; and

means for locking at least one resource of said plurality of resources based on said relationship.

-4-

POU9-2000-0018-US1

5. (Original) The system of claim 4, wherein said means for locking comprises means for locking said at least one resource without locking at least one other resource of said plurality of resources.

6. (Original) The system of claim 4, wherein said means for locking further comprises means for locking said at least one resource based on an operation to be performed.

7. (Original) At least one program storage device readable by a machine, tangibly embodying at least one program of instructions executable by the machine to perform a method of managing the locking of resources of a data repository, said method comprising:

determining a relationship between a plurality of resources of said data repository, wherein said relationship is at least one of a containment-based relationship and a reference-based relationship; and

locking at least one resource of said plurality of resources based on said relationship.

8. (Original) The at least one program storage device of claim 7, wherein said locking of said at least one resource is performed without locking at least one other resource of said plurality of resources.

9. (Original) The at least one program storage device of claim 7, wherein said locking of said at least one resource is further based on an operation to be performed.

10. (Previously presented) The method of claim 3, wherein the operation comprises at least one of create, delete, read and write.

11. (Previously presented) The method of claim 10, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the

locking comprises write locking the first resource in order to create an instance of the second resource.

B2 12. (Previously presented) The method of claim 10, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises write locking the first resource and the second resource in order to delete an instance of the second resource.

13. (Previously presented) The method of claim 10, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises read locking the second resource in order to read therefrom.

14. (Previously presented) The method of claim 10, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises write locking the second resource in order to write thereto.

15. (Previously presented) The method of claim 10, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises write locking the first resource in order to delete the first resource.

16. (Previously presented) The method of claim 10, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises write locking the first resource in order to create an instance of the second resource.

17. (Previously presented) The method of claim 10, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises at least one instance

-6-

POU9-2000-0018-US1

of a first resource and a second resource, at least one of the at least one instance of the first resource referencing the second resource, and wherein the locking comprises write locking the at least one of the at least one instance of the first resource in order to delete the second resource.

B2  
18. (Previously presented) The method of claim 10, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises read locking the first resource and the second resource in order to read the second resource.

19. (Currently amended) The method of claim 10, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises at least one instance of a first resource and a second resource, at least one of the at least one instance of the first resource referencing the second resource, and wherein the locking comprises read locking the second resource ~~and~~ at least one of the at least one instance of the first resource and write locking the second resource in order to write to the second resource.

20. (Currently amended) The method of claim 10, wherein the relationship is a referenced-based relationship, wherein the at least one resource comprises a first resource, a second resource and a third resource, the first resource and the second resource referencing the third resource, and wherein the locking comprises read locking one of the first resource and the second resource and write locking the third resource in order to write to the third resource.

21. (Previously presented) The method of claim 1, wherein the determining comprises employing a set of policies.

22. (Previously presented) The method of claim 1, wherein the at least one resource comprises at least one of a table and a directory.

-7-

POU9-2000-0018-US1

23. (Previously presented) The system of claim 4, wherein the operation comprises at least one of create, delete, read and write.

B2 24. (Previously presented) The system of claim 23, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the means for locking comprises means for write locking the first resource in order to create an instance of the second resource.

25. (Previously presented) The system of claim 23, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the means for locking comprises means for write locking the first resource and the second resource in order to delete an instance of the second resource.

26. (Previously presented) The system of claim 23, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the means for locking comprises means for read locking the second resource in order to read therefrom.

27. (Previously presented) The system of claim 23, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the means for locking comprises means for write locking the second resource in order to write thereto.

28. (Previously presented) The system of claim 23, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the means

-8-

POU9-2000-0018-US1

for locking comprises means for write locking the first resource in order to delete the first resource.

29. (Previously presented) The system of claim 23, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the means for locking comprises means for write locking the first resource in order to create an instance of the second resource.

30. (Previously presented) The system of claim 23, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises at least one instance of a first resource and a second resource, at least one of the at least one instance of the first resource referencing the second resource, and wherein the means for locking comprises means for write locking the at least one of the at least one instance of the first resource in order to delete the second resource.

31. (Previously presented) The system of claim 23, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the means for locking comprises means for read locking the first resource and the second resource in order to read the second resource.

32. (Currently amended) The system of claim 23, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises at least one instance of a first resource and a second resource, at least one of the at least one instance of the first resource referencing the second resource, and wherein the means for locking comprises means for read locking the ~~second resource~~ and at least one of the at least one instance of the first resource and write locking the second resource in order to write to the second resource.

33. (Currently amended) The system of claim 23, wherein the relationship is a referenced-based relationship, wherein the at least one resource comprises a first resource, a

-9-

POU9-2000-0018-US1

second resource and a third resource, the first resource and the second resource referencing the third resource, and wherein the means for locking comprises means for read locking one of the first resource and the second resource and write locking the third resource in order to write to the third resource.

B2 34. (Previously presented) The system of claim 4, wherein the means for determining comprises means for employing a set of policies.

35. (Previously presented) The system of claim 4, wherein the at least one resource comprises at least one of a table and a directory.

36. (Previously presented) The at least one program storage device of claim 7, wherein the operation comprises at least one of create, delete, read and write.

37. (Previously presented) The at least one program storage device of claim 36, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises write locking the first resource in order to create an instance of the second resource.

38. (Previously presented) The at least one program storage device of claim 36, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises write locking the first resource and the second resource in order to delete an instance of the second resource.

39. (Previously presented) The at least one program storage device of claim 36, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises read locking the second resource in order to read therefrom.

-10-

POU9-2000-0018-US1

40. (Previously presented) The at least one program storage device of claim 36, wherein the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises write locking the second resource in order to write thereto.

B2  
41. (Previously presented) The at least one program storage device of claim 36, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises write locking the first resource in order to delete the first resource.

42. (Previously presented) The at least one program storage device of claim 36, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises write locking the first resource in order to create an instance of the second resource.

43. (Previously presented) The at least one program storage device of claim 36, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises at least one instance of a first resource and a second resource, at least one of the at least one instance of the first resource referencing the second resource, and wherein the locking comprises write locking the at least one of the at least one instance of the first resource in order to delete the second resource.

44. (Previously presented) The at least one program storage device of claim 36, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource, and wherein the locking comprises read locking the first resource and the second resource in order to read the second resource.



- 11 -

POU9-2000-0018-US1

B2 45. (Currently amended) The at least one program storage device of claim 36, wherein the relationship is a reference-based relationship, wherein the at least one resource comprises at least one instance of a first resource and a second resource, at least one of the at least one instance of the first resource referencing the second resource, and wherein the locking comprises read locking the second resource and at least one of the at least one instance of the first resource and write locking the second resource in order to write to the second resource.

46. (Currently amended) The at least one program storage device of claim 36, wherein the relationship is a referenced-based relationship, wherein the at least one resource comprises a first resource, a second resource and a third resource, the first resource and the second resource referencing the third resource, and wherein the locking comprises read locking one of the first resource and the second resource and write locking the third resource in order to write to the third resource.

47. (Previously presented) The at least one program storage device of claim 7, wherein the determining comprises employing a set of policies.

48. (Previously presented) The at least one program storage device of claim 7, wherein the at least one resource comprises at least one of a table and a directory.

---